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U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

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**Copper, Monthly**

## COPPER IN MAY 1996

Average daily copper mine and refinery production were essentially unchanged in May. Average daily primary smelter production declined by about 15% as one smelter was shut for scheduled maintenance for most of the month and another continued to experience start-up difficulties with its new flash converting technology. Domestic production of copper sulfate, shown in table 17, rose by nearly 8% in 1995 to a record high level. However, apparent demand for sulfate remained relatively unchanged as net imports declined.

According to data published by the International Copper Study Group in its Copper Bulletin (May 1996), world production and consumption of refined copper for the first quarter of 1996 were nearly in balance. World mine and refinery production of copper in the first quarter were up by about 8% and 5%, respectively, from that of the first quarter of 1995.

### Price update:

Copper price volatility continued during the first half of May, the price rising on news of a copper strike in Chile, and then plummeting following news of settlement. Prices stabilized somewhat during the second half of the month, with the Comex spot price averaging about \$1.19 per pound during this period. This relative stability was short-lived, with large price swings occurring during the first 10 days of June. Copper prices plummeted during the latter part of the second week following the announcement by Sumitomo that its head of copper trading had been fired, and that the company had lost an estimated \$1.8 billion from illegal trading over a 10-year period. By the end of June, the Comex spot price had slipped to about \$0.92 per pound, and by July 19, had drifted down to \$0.88.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES 1/

(Metric tons, unless noted)

	Source table 2/	1995 p/	1996		
			April	May	January- May
Production:					
Primary					
Mine, recoverable	(2)	1,850,000	157,000 r/	152,000	800,000
Smelter 3/	(3)	1,260,000	102,000 r/	90,300	511,000
Refinery:					
Electrolytic:					
Domestic	(4)	1,310,000	108,000	103,000	547,000
Foreign	(4)	77,300	9,790	9,500	50,200
Electrowon	(4)	533,000	44,000 r/	47,600	226,000
Total	(4)	1,920,000	162,000 r/	160,000	823,000
Secondary recoverable copper					
Refineries	(5)	319,000 r/	22,500	27,600	124,000
Ingot makers 4/	(5)	128,000	10,600	10,600	53,100
Brass and wire-rod mills	(5)	713,000	62,100 r/	63,300	305,000
Foundries, etc.	(5)	58,500	4,880	4,880	24,400
Consumption:					
Total apparent	(8)	2,500,000 r/	221,000	NA	NA
Refined (reported)	(7)	2,530,000	221,000 r/	234,000	1,120,000
Purchased copper-base scrap	(9)	1,650,000 r/	137,000 r/	143,000	694,000
Stocks at end of period:					
Total refined	(11)	164,000	174,000 r/	149,000	XX
Blister, etc.	(11)	174,000	159,000 r/	151,000	XX
Prices:					
U.S. producer cathode (cents per pound)	(12)	138.333	122.628	126.667	122.457
Imports:					
Ores and concentrates 5/	(14)	127,000	--	NA	NA
Refined	(14)	429,000	49,600	NA	NA
Exports:					
Ores and concentrates 5/	(15)	239,000	14,400	NA	NA
Refined	(15)	217,000	12,300	NA	NA

p/ Preliminary. r/ Revised. NA Not available. XX Not applicable.

1/ Data are rounded to three significant digits, except prices; may not add to totals shown.

2/ Numbers in parentheses refer to the detailed tables where these data are located.

3/ From domestic and foreign ores.

4/ Data no longer collected monthly; 1995 and 1996 data estimated based on 1994 monthly average.

5/ Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES 1/

(Metric tons)

State	1995 p/ 2/						
	April	May	June	July	August	September	October
Arizona	93,200	99,400	101,000	98,700	100,000	102,000	104,000
Others 3/	57,800	59,000	59,700	61,400	63,700	56,300	51,200
Total	151,000	158,000	160,000	160,000	164,000	159,000	155,000

  

State	1995 p/ 2/		1996					
	December	Year total	January	February	March	April	May	Jan. - May
Arizona	105,000	1,190,000	104,000	92,700	108,000	106,000	102,000	555,000
Others 3/	45,800	663,000	47,800 r/	45,000 r/	52,200 r/	50,700 r/	50,200	246,000
Total	151,000	1,850,000	152,000 r/	138,000 r/	160,000 r/	157,000 r/	152,000	800,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Monthly data and the 1995 "Year total" excludes production by companies reporting on an annual basis.

3/ Includes production from Idaho, Michigan, Missouri, Montana, Nevada, New Mexico, Utah, and Wisconsin.

TABLE 3  
COPPER 1/ PRODUCED AT SMELTERS IN THE UNITED STATES, BY SOURCE 2/

(Metric tons, copper content)

Period	Domestic and foreign ores	Scrap	Total
1995: p/			
May	105,000	31,500	136,000
June	89,300	28,900	118,000
July	105,000	27,800	133,000
August	103,000	29,000	132,000
September	103,000	28,700	131,000
October	114,000	33,900	148,000
November	105,000	33,700	139,000
December	106,000	35,100	141,000
Jan-May	537,000	141,000	679,000
Year total	1,260,000	358,000	1,620,000
1996:			
January	111,000	30,800	142,000
February	106,000	31,500	138,000
March	101,000	33,700	134,000
April r/	102,000	30,100	133,000
May	90,300	29,700	120,000
Jan-May	511,000	156,000	667,000

p/ Preliminary. r/ Revised.

1/ Includes blister, anode and black copper from primary or secondary sources.

2/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY 1/

(Metric tons)

Period	Primary materials				Scrap			Total refined
	Electrolytically refined 2/		Electrowon	Total	Electro-lytically refined 2/	Fire refined	Total	
	Domestic 3/	Foreign						
1995: p/								
May	118,000	8,160	42,400	169,000	15,700	12,000 r/	27,700 r/	197,000 r/
June	106,000	7,210	44,200	158,000	16,900	8,110	25,000	183,000
July	106,000	6,510	44,600	157,000	15,400	3,370	18,700	175,000
August	110,000	8,440	48,500	167,000	15,900	9,190	25,100	192,000
September	105,000	6,570	47,600	159,000	16,300	9,140	25,400	185,000
October	109,000	8,490	49,300	167,000	16,000	8,950	25,000	192,000
November	116,000	6,330	48,100	171,000	16,100	10,100	26,200	197,000
December	112,000	7,340	49,100	169,000	16,000	8,350	24,400	193,000
Jan-May	544,000	26,400	201,000	772,000	102,000	47,300	149,000	921,000
Year total	1,310,000	77,300	533,000	1,920,000	215,000	105,000 r/	319,000 r/	2,240,000 r/
1996:								
January	117,000	11,300	46,800	175,000	14,300	10,700	25,000	200,000
February	107,000	9,990	42,700	160,000	13,700	10,000	23,700	183,000
March	112,000	9,570	45,100	167,000	14,200	11,300	25,500	192,000
April	108,000	9,790	44,000 r/	162,000 r/	14,800	7,690	22,500	184,000 r/
May	103,000	9,500	47,600	160,000	17,700	9,950	27,600	187,000
Jan-May	547,000	50,200	226,000	823,000	74,700	49,600	124,000	948,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Based on source of material at smelter level.

3/ Includes fire-refined copper.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASED SCRAP 1/

(Metric tons, copper content)

Period	Refineries 2/		Ingot makers 3/		Brass and wire-rod mills		Foundries, etc. 4/		Total 5/
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1995: p/									
May	11,600 r/	16,100 r/	2,840	7,790	56,900	3,920	2,130	2,750	104,000
June	9,320	15,700	2,840	7,790	57,200	4,200	2,130	2,750	102,000
July	5,160	13,600	2,840	7,790	46,200	3,690	2,130	2,750	84,100
August	9,750	15,300	2,840	7,790	51,900	4,060	2,130	2,750	96,500
September	9,160	16,200	2,840	7,790	52,500	4,550	2,130	2,750	97,900
October	9,500	15,500	2,840	7,790	56,300	4,090	2,130	2,750	101,000
November	10,100	16,200	2,840	7,790	54,600	3,650	2,130	2,750	100,000
December	8,870	15,500	2,840	7,790	45,400	3,650	2,130	2,750	88,900
Jan.- May	49,800	99,600	14,200	39,000	300,000	21,400	10,600	13,700	548,000
Year total	112,000 r/	208,000 r/	34,000	93,500	664,000	49,300	25,500	33,000	1,220,000 r/
1996:									
January	11,100	13,900	2,840	7,790	59,400	3,350	2,130	2,750	103,000
February	9,790	13,900	2,840	7,790	54,000 r/	2,980	2,130	2,750	96,200 r/
March	11,100	14,400	2,840	7,790	57,600 r/	2,660	2,130	2,750	101,000 r/
April	8,430	14,000	2,840	7,790	57,900 r/	4,240	2,130	2,750	100,000 r/
May	10,300	17,300	2,840	7,790	59,100	4,230	2,130	2,750	106,000
Jan.- May	50,700	73,600	14,200	39,000	288,000	17,500	10,600	13,700	507,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Electrolytically refined and fire-refined scrap based on source of material at smelter level.

3/ Data no longer collected monthly; 1995 and 1996 data estimated based on 1994 annual data.

4/ Estimate based on 1994 annual data.

5/ Does not include an estimate, based on reported 1994 data. This comprises a monthly average of 2,930 tons from new scrap and 2,340 tons from old scrap of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD MILL SEMIFABRICATES 1/

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire rod mills	Brass mills	Wire rod mills	Brass mills	Wire rod mills
1995: p/						
May	124,000	150,000	123,000	159,000	53,900	68,900
June	127,000	164,000	128,000	158,000	52,900	75,000
July	94,400	136,000	99,300	138,000	48,000	73,100
August	114,000	148,000	113,000	163,000	49,100	58,500
September	116,000	163,000	116,000	163,000	49,600	57,600
October	120,000	161,000	118,000	154,000	51,300	64,900
November	113,000	143,000	118,000	141,000	46,400	67,300
December	105,000	134,000	98,600	132,000	52,500	69,100
Jan.- May	629,000	769,000	639,000	775,000	XX	XX
Year total	1,420,000	1,820,000	1,430,000	1,820,000	XX	XX
1996:						
January	120,000	146,000	122,000	147,000	50,100	68,200
February	128,000 r/	155,000	130,000 r/	158,000	48,800 r/	64,900
March	144,000 r/	173,000	142,000 r/	161,000	51,300 r/	76,200
April	132,000 r/	165,000	134,000 r/	182,000	49,400 r/	59,100 r/
May	132,000	177,000	131,000	169,000	50,500	66,800
Jan.- May	656,000	815,000	658,000	817,000	XX	XX

p/ Preliminary. r/ Revised. XX Not applicable.

1/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER 1/

(Metric tons)

Period and item	Wire rod mills	Brass mills 2/	Other plants 3/	Total
1995: p/				
May	166,000	45,600	3,920	215,000
June	171,000	45,100	3,920	220,000
July	143,000	30,600	3,920	177,000
August	171,000	43,500	3,920	219,000
September	169,000	44,400	3,920	218,000
October	163,000	44,000	3,920	211,000
November	150,000	44,400	3,920	198,000
December	132,000	40,700	3,920	176,000
Jan.-May	847,000	240,000	19,600	1,110,000
Year total	1,950,000	533,000	47,000	2,530,000
1996:				
January	155,000	45,100	3,920	204,000
February	166,000	47,200 r/	3,920	217,000 r/
March	183,000	56,400 r/	3,920	244,000 r/
April	167,000	50,400 r/	3,920	221,000 r/
May:				
Cathodes	181,000	28,200	1,120	210,000
Wire bars	--	W	W	W
Ingots and ingot bars	--	2,300	1,750	4,050
Cakes and slabs	--	7,200	W	7,200
Billets and other	--	11,700	1,060	12,800
Total	181,000	49,500	3,920	234,000
Jan.-May	852,000	249,000	19,600	1,120,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Billets and other."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ In 1994, brass mills consumed 2,670 tons of refined lead, 652 tons of pig tin, 3,340 tons of refined nickel, and 90,700 tons of slab zinc.

3/ Estimated consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers; based on 1994 annual data.

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER 1/

(Metric tons)

Period	Refined copper production	Copper in old scrap 2/	Net refined imports	Stock change during period	Apparent consumption
1995: p/					
May	169,000	32,900 r/	13,100	(1,380)	216,000 r/
June	158,000	32,700	(1,090)	(6,490)	196,000
July	157,000	30,100	15,200	28,000	174,000
August	167,000	32,300	15,200	9,190	205,000
September	159,000	33,700	16,500	6,270	203,000
October	167,000	32,500	29,600	(2,050)	231,000
November	171,000	32,700	31,900	5,380	230,000
December	169,000	32,000	30,800	30,900	201,000
Jan-Apr.	603,000	152,000	60,100	(25,300)	841,000
Year total	1,920,000	411,000 r/	211,000	44,500	2,500,000 r/
1996:					
January	175,000	30,100	29,400	28,600	206,000
February	160,000	29,800	24,800	(20,500)r/	235,000 r/
March	167,000	30,000	22,600	-7230 r/	227,000
April	162,000 r/	31,200	37,300	9,580 r/	221,000
May	160,000	34,400	NA	(25,100)	NA
Jan-Apr.	664,000	121,000	114,000	10,400	888,000

p/ Preliminary. r/ Revised. NA Not available.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes reported monthly production of copper from old scrap of copper-base and of non-copper-base materials and estimates for annual reporters based on 1994 data.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers 2/		Brass and wire-rod mills 3/		Foundries, etc. e/		Total scrap used
	New scrap 2/	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1995: p/									
May	12,600 t/	32,300 t/	3,800	11,600	71,500	4,720	2,400	3,100	142,000 t/
June	11,100 t/	31,500 t/	3,800	11,600	71,400	5,160	2,400	3,100	140,000
July	7,680 t/	28,000 t/	3,800	11,600	56,400	4,360	2,400	3,100	117,000
August	11,900 t/	30,000 t/	3,800	11,600	65,100	4,790	2,400	3,100	133,000 t/
September	10,600 t/	31,600 t/	3,800	11,600	64,900	5,460	2,400	3,100	133,000
October	10,800 t/	29,800 t/	3,800	11,600	70,100	4,950	2,400	3,100	136,000
November	12,300 t/	29,400 t/	3,800	11,600	68,300	4,380	2,400	3,100	135,000
December	10,100 t/	31,800 t/	3,800	11,600	57,100	4,460	2,400	3,100	124,000
Jan.- May	54,000	172,000	19,000	58,000	374,000	25,800	12,000	15,500	730,000
Year total	128,000 t/	385,000 t/	45,600	139,000	827,000	59,400	28,800	37,200	1,650,000 t/
1996:									
January	12,600 t/	28,200 t/	3,800	11,600	74,300	4,100	2,400	3,100	140,000
February	10,700 t/	29,900 t/	3,800	11,600	68,200 t/	3,830	2,400	3,100	134,000
March	11,700 t/	32,600 t/	3,800	11,600	72,300 t/	3,570	2,400	3,100	141,000
April	9,680 t/	28,700 t/	3,800	11,600	72,300 t/	5,000	2,400	3,100	137,000 t/
May	10,800	31,600	3,800	11,600	74,600	5,100	2,400	3,100	143,000
Jan.- May	55,500	151,000	19,000	58,000	362,000	21,600	12,000	15,500	694,000

e/ Estimated. p/ Preliminary. t/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Data for 1995 and 1996 is estimated from 1994 annual data.

3/ Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/ 2/

(Metric tons, gross weight)

Scrap type and processor	1995 p/		1996			
	Jan.-May	Year total	March	April	May	Jan.-May
No. 1 wire and heavy:						
Smelters and refiners	71,100	145,000 t/	13,400 t/	9,960 t/	12,200	58,400
Brass and wire-rod mills	167,000	375,000	29,700 t/	32,500 t/	31,800	154,000
No. 2 mixed heavy and light:						
Smelters and refiners	89,100	210,000 t/	17,700 t/	16,500 t/	17,900	84,800
Brass and wire-rod mills	16,300	33,400	2,770	3,130	3,470	14,900
Total unalloyed scrap:						
Smelters and refiners	160,000	355,000 t/	31,100 t/	26,400 t/	30,100	143,000
Brass mills	183,000	408,000	32,500 t/	35,600 t/	35,300	169,000
Red brass: 3/						
All plants	10,900	24,500	2,000 t/	1,960 t/	1,950	9,940
Leaded yellow brass:						
All plants	159,000	346,000	31,300 t/	30,600 t/	33,600	156,000
Yellow and low brass:						
Smelters and refiners	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Brass mills	17,900	47,500	4,440 t/	3,820 t/	4,270	22,000
Cartridge cases and brass:						
Smelters and refiners	--	--	--	--	--	--
Brass mills	24,200	49,400	3,950	4,030	3,830	20,200
Auto radiators:						
Smelters and refiners	8,090	19,400	1,620 t/	1,640	1,610	8,110
Bronzes:						
Smelters and refiners	--	--	--	--	--	--
Brass mills	4,930	11,300	985	1,000	811	4,780
Nickel-copper alloys:						
Smelters and refiners	--	--	--	--	--	--
Brass mills	7,290	17,700	2,120	1,710	1,510	9,340
Low grade & residues:						
Smelters and refiners	32,800	80,900	6,900	5,450	5,300	30,700
Other alloy scrap: 5/						
Smelters and refiners	17,400	39,200	3,160	3,380	3,870	16,800
Brass mills	1,720	3,920	406	448	285	1,850
Total alloyed scrap:						
Smelters and refiners	67,800	162,000	13,600	12,300	12,700	65,000
Brass mills	217,000	478,000	43,300 t/	41,700 t/	44,400	214,000
Total scrap:						
Smelters and refiners	228,000	517,000 t/	44,600 t/	38,800 t/	42,700	208,000
Brass and wire-rod mills	399,000	886,000	75,800 t/	77,300 t/	79,700	383,000

p/ Preliminary. t/ Revised.

1/ Does not include: consumption by ingot makers, foundries, chemical plants and miscellaneous manufacturers, estimated to total about 20,800 tons of scrap per month in 1995; consumption of home scrap at brass mills which averaged 57,200 tons per month in 1994; includes estimated consumption of 337 tons per month by several copper smelting plants that reported only on an annual basis in 1995.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Includes composition turnings, silicon bronze, zincy bronze, railroad car boxes, cocks and faucets, gilding metal and commercial bronze.

4/ Withheld to avoid disclosing company proprietary data; included in "Other alloy scrap."

5/ Includes refinery brass, beryllium copper, phosphor copper and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD 1/

(Metric tons)

Period	Crude copper 2/	Refined copper						Total refined
		Refineries 3/	Wire rod mills 3/	Brass mills 3/	Other 4/	Comex 5/	LME 6/	
1995: p/								
May	171,000	41,600	26,300	14,200	4,100	6,380	--	92,500
June	177,000	36,900	22,700	10,500	4,100	11,900	--	86,100
July	184,000	36,800	29,000	14,700	4,100	15,100	14,300	114,000
August	176,000	36,200	27,900	12,000	4,100	14,900	28,000	123,000
September	170,000	38,500	24,900	11,500	4,100	10,100	40,300	129,000
October	180,000	39,600	24,900	12,100	4,100	5,540	41,200	127,000
November	170,000	37,900	26,700	11,700	4,100	4,900	47,500	133,000
December	174,000	38,000	24,800	7,110	4,100	21,500	68,200	164,000
1996:								
January	172,000	35,700	34,500	10,400	4,100	11,000	96,700	192,000
February	174,000	32,500	22,600	11,200 r/	4,100	11,700	89,600	172,000 r/
March	150,000	34,500	19,500	9,820 r/	4,100	12,600	84,000	165,000 r/
April	159,000 r/	35,300 r/	25,500	11,100 r/	4,100	18,800	79,400	174,000 r/
May	151,000	34,500	20,600	10,300	4,100	12,000	67,500	149,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Copper content of blister and other materials in transit and in process of refining.

3/ Stocks of refined copper as reported; no estimates are made for non-respondents.

4/ Monthly estimates based on reported and 1994 annual data, comprising stocks at secondary smelters, chemical plants, foundries, and miscellaneous manufacturers.

5/ Commodity Exchange Inc., New York.

6/ London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES AND  
ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price		Comex first position 3/	L.M.E. cash price Grade A
	Cathode 1/	Wirebar 2/		
1995:				
May	131.324	139.800	127.934	125.772
June	141.139	149.511	137.759	135.798
July	141.383	150.003	138.003	139.461
August	141.128	149.774	137.774	137.718
September	135.518	144.138	132.138	132.216
October	131.380	139.995	127.996	127.582
November	139.860	148.500	136.500	134.986
December	135.103	143.778	131.778	132.683
Average	138.333	146.724	134.717	133.122
1996:				
January	121.431	130.090	118.091	118.622
February	120.020	128.668	116.668	115.077
March	121.540	130.200	118.200	116.140
April	122.628	131.286	119.286	117.707
May	126.667	135.327	123.327	120.527
Average	122.457	131.114	119.114	117.615

1/ Listed as "U.S. producer cathode."

2/ Listed as "Electrolytic wirebar (Warrenton Refining Co.)."

3/ Listed as "Comex high grade first position."

Sources: Platt's Metals Week and American Metal Market.

TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 scrap	Red brass turnings and borings
1995:				
May	118.15	100.60	87.91	62.46
June	126.16	108.44	90.91	63.82
July	126.07	109.62	94.05	66.58
August	126.68	110.77	95.00	68.00
September	122.59	105.99	94.10	68.00
October	120.17	104.50	92.27	67.00
November	125.91	106.96	91.80	66.00
December	120.89	103.96	92.00	66.00
Average	123.28	104.73	91.26	63.38
1996:				
January	112.46	95.09	87.98	57.86
February	111.85	93.83	89.75	57.00
March	113.06	96.54	92.53	57.66
April	114.20	96.99	84.43	58.00
May	116.25	97.10	84.59	57.84
Average	113.56	95.91	87.86	57.67

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	1996			1996			1996			1996		
	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.
Brazil	--	--	--	--	--	--	--	--	--	15,500	2,000	5,000
Canada	(2/)	--	--	590	19	19	40,000	--	2,610	283,000	31,300	124,000
Chile	80,400	--	12,500	--	--	--	38,000	6,400	14,100	29,100	7,860	18,700
Germany	--	--	--	--	--	--	--	--	--	12,300	--	(2/)
Japan	--	--	--	4	--	--	(2/)	--	--	7,740	49	707
Malaysia	--	--	--	55	18	75	--	--	--	--	--	--
Mexico	11,700	--	275	2,190	308	729	2,350	9,080	14,300	58,600	3,990	14,300
Peru	34,900	--	--	--	--	--	10,400	--	--	9,860	4,350	17,400
Russia	--	--	--	--	--	--	--	--	--	11,600	--	--
South Africa	1	--	--	11	--	--	--	--	638	2	--	--
Spain	--	--	--	--	--	--	3,260	175	1,170	--	--	--
Uzbekistan	--	--	--	--	--	--	--	--	--	--	--	2,000
Other	1	--	--	3	1	6	--	--	--	618	76	254
Total	127,000	--	12,800	2,860	346	829	94,100	15,700	32,800	429,000	49,600	182,000

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.



TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	1996			1996			1996			1996		
	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.
Belgium	1,980	--	--	1,330	--	--	81	--	--	2,260	10	18
Canada	123,000	9,630	26,900	30,400	1,750	13,200	24,800	1,670	7,650	22,900	2,580	9,510
China	37,100	2,990	34,800	17	--	--	211	20	20	5,130	--	--
Germany	--	--	--	152	--	--	84	39	226	629	7	52
Hong Kong	--	16	16	48	19	29	650	234	254	4,710	19	217
India	--	--	--	151	110	271	36	--	--	138	--	7
Indonesia	--	--	--	--	--	--	--	39	39	1,230	--	--
Israel	7	2	5	--	--	--	13	23	24	6	--	7
Italy	--	8	8	--	--	--	245	81	345	1,580	84	2,070
Japan	53,500	--	5,530	1,880	93	801	363	25	152	52,800	2,520	7,880
Korea, Republic of	5,520	2	2	10	--	--	1,440	38	406	11,200	632	1,500
Malaysia	--	--	--	--	--	--	--	--	--	4,110	641	4,230
Mexico	160	--	1,130	763	36	181	219	48	141	2,710	56	2,460
Peru	1,180	1,740	1,750	9	--	--	--	--	--	--	--	129
Philippines	16,000	--	--	--	--	--	20	--	--	3	--	--
Singapore	5	--	--	18	--	--	39	--	--	12,700	--	523
Taiwan	--	--	--	201	--	--	137	39	138	75,000	5,370	15,500
Thailand	34	--	--	--	--	--	124	--	19	18,700	366	10,700
Venezuela	--	--	--	--	--	--	860	--	--	27	--	20
Other	334 r/	45	1,670	69	2	95	177 r/	27	108	1,650 r/	47	426
Total	239,000	14,400	70,200	35,100	2,010	14,600	29,500	2,290	9,520	217,000	12,300	55,200

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 16  
U.S. COPPER SCRAP TRADE 1/

(Metric tons, gross weight)

Country or territory	Imports						Exports					
	Unalloyed			Alloyed			Unalloyed			Alloyed		
	1996			1996			1996			1996		
	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.	1995	Apr.	Jan.-Apr.
Belgium	11	--	--	294	--	--	2,730	76	639	32	--	--
Canada	36,600	3,230	12,500	64,600	4,950	19,600	110,000	8,890	35,600	30,300	2,380	9,780
Chile	9,270	752	3,250	66	--	71	--	--	--	--	3	3
China	--	--	--	21	--	60	28,000	2,290	5,030	7,380	162	639
Colombia	325	45	343	1,280	296	1,520	--	--	--	--	--	--
Costa Rica	848	82	356	524	24	119	--	--	--	--	--	--
Dominican Republic	702	52	226	1,860	174	749	--	--	--	--	--	--
Germany	--	--	1	64	--	42	1,580	29	240	1,190	84	246
Hong Kong	--	--	--	23	--	110	31,400	4,510	10,300	7,810	1,160	2,810
India	--	--	--	--	--	--	7,100	183	2,010	25,400	1,600	6,350
Japan	--	--	--	124	--	2	20,100	1,270	4,280	3,870	345	759
Korea, Republic of	--	--	--	14	--	--	10,300	642	2,250	1,480	39	140
Mexico	32,800	2,810	10,800	50,500	4,660	16,800	6,470	255	1,410	37	--	--
Panama	1,170	82	265	776	76	371	--	--	--	--	--	--
Peru	166	46	317	116	33	163	--	--	--	--	--	--
Taiwan	--	5	29	2,940	75	479	1,680	77	261	832	165	298
Thailand	--	--	--	8	20	20	--	17	17	827	--	242
Venezuela	3,260	443	1,330	2,860	138	1,230	--	--	--	--	--	--
Other	2,940 r/	242	1,300	7,490 r/	715	3,160	3,920 r/	46	250	1,490 r/	77	246
Total	88,100	7,790	30,700	134,000	11,200	44,500	223,000	18,300	62,200	80,600	6,010	21,500

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 17  
 PRODUCTION, SHIPMENTS, STOCKS, IMPORTS, AND EXPORTS OF  
 COPPER SULFATE IN THE UNITED STATES 1/

(Metric tons, gross weight, unless otherwise noted)

Year	Production		Shipments 2/ 3/	Stocks, Dec. 31	Imports	Exports
	Quantity	Copper content				
1994	48,400	12,100	48,800	2,510	12,400	997
1995	52,000	13,000 e/	51,800	2,770	12,400	3,080

e/ Estimated.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes consumption by producing companies.

3/ In 1995, U.S. producers reported 61% of domestic shipments were for agriculture; 32% for industrial use; and 7% for water treatment.